

TO: Customer

FROM: [redacted]

STATINTL

DATE: 24 February 1966

SUBJECT: Monthly contract Status Report #8
Advanced Light Tables
Period: 1 February 1966 to 28 February 1966

1. Objective:

To design and develop three Advanced Light Tables.

2. Summary of Work Performed During the Reporting Period:

Castings for Tables #1 and #2 were delivered [redacted] on
10 February '66. The castings were delivered [redacted]

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[redacted] for machining. Table
#1 casting machining will be complete by 15 March '66. The castings
for Table #2 will be complete by 1 April '66.

The film transport mechanisms are assembled for Tables #1 and
#2. These units will be installed immediately upon delivery of the
castings.

Table #3 design is progressing in the area of the tracking light
source transport mechanism and casting design. The configuration
for the tracking light sources has been established by the customer.
Three separate cold cathode pans will be used to provide the required
illumination for the microscopes in the normal and 90° positions.
Switching from normal to 90° configuration will be done electrically
rather than rotating the pans. Three transformers for the light pans
will be mounted to the tracking light source carriage on the exterior
of the table.

3. Work Schedule Conformance:

Delivery of Light Table #1 is anticipated on 1 April '66. Delivery
of Table #2 will be on 15 April '66 if the microscope table and castings
are delivered on schedule. The delivery of Table #3 is yet to be
determined.

4. Analysis of Work Program Covering the Reporting Period:

Considerable progress has been made during the month of February
in the final fabrication and assembly of Tables #1 and #2. Design
is progressing on Table #3. It has been discovered that a cooling
problem exists in the high intensity light sources. The magnitude
of the problem has been determined and a forced air cooling system
is being selected to remove the heat. Several engineering problems
still remain to be solved before detail drawings of all components can
be completed.

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5. Changes in Key Personnel:

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6. Trips, Meetings, and Special Conferences:

The customer's representatives visited [redacted] plant on 14 February '66. A mock-up of a portion of the film transport mechanism for Table #1 was demonstrated. It was determined from this demonstration that friction must be reduced in the unit to provide a suitable cranking force. The high intensity light source configuration was discussed for Table #3. It was decided that a three source configuration would be used rather than the two sources previously agreed upon. New cold cathode lamps were demonstrated which have been developed to reduce flicker at low light levels.

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7. Plans for the Next Reporting Period:

1. Complete the assembly of Table #1.
2. Begin the assembly of Table #2.
3. Continuation of Table #3 design.
4. Procurement of tracking light sources.